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Apical meristems of monocotyl roots.—DAISY G. SCOTT[48] has investigated the root tips of Alisma, Butomus, Vallisneria, Ruppia, Zostera, Naias, Stratiotes, and Limnocharis. Her results support DE BARY'S statement in reference to the roots of monocotyledons in general, namely that there are three distinct groups of initials, one giving rise to calyptrogen, another to dermatogen and periblem, and the third to plerome.—J. M. C.

Megaspores of Lepidostrobus.—Mrs. D. H. SCOTT[49] has found that certain megaspores referred to KIDSTON'S Triletes belong to *Lepidostrobus foliaceus*, heretofore regarded as homosporous. They are peculiar in bearing a conspicuous appendage, said to be suggestive of the so-called "swimming apparatus" of Azolla. Many of these spores were found, and they are spoken of as "fairly common objects."—J. M. C.

N. Am. Hydnaceae.—BANKER[50] has published a revision of the pileate forms of Hydnaceae found in North America north of Panama, and including the adjacent islands. A few resupinate forms are included, but in general they are excluded, awaiting an examination of the Berkeley types. Ten genera are presented, two of them being new (*Leaia* and *Grandinioides*), and of the 63 species 10 are new.—J. M. C.

Fossil germinating spores.—SCOTT[51] has announced the discovery of germinating spores in a sporangium of *Stauropteris Oldhamia.* The discovery is important, for it has been in doubt whether this species should be regarded as a fern or a pteridosperm. The germination is distinctly fern-like, and confirms the anatomical resemblance of this species to the Botryopterideae.—J. M. C.

Apple scab.—LAWRENCE[52] reports further studies of the apple scab in Washington. In a comparative test of the relative effects of the dust spray mixture and the ordinary liquid Bordeaux it was found that the liquid was twelve times as effective as the dust spray. This is in accord with the results secured by CRANDALL[53] in Illinois.—E. MEAD WILCOX.

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[49] SCOTT, RINA, On the megaspore of *Lepidostrobus foliaceus.* New Phytol. **5**:116–19. *pl. 8. figs. 24–25.* 1906.

[50] BANKER, H. J., A contribution to a revision of the North American Hydnaceae. Mem. Torr. Bot. Club **12**: 99–194. 1906.

[51] SCOTT, D. H., The occurrence of germinating spores in *Stauropteris Oldhamia.* New Phytol. **5**:170–172. 1906.

[52] LAWRENCE, W. H., Apple scab in Eastern Washington. Bull. Wash. Exp. Sta. **75**:1–14. 1906.

[53] CRANDALL, C. S., Spraying apples. Relative merits of liquid and dust applications. Bull. Ill. Exp. Sta. **106**:205–242. *pls. 1–9. figs. 1–5.* 1906. Review in BOT. GAZETTE **42**:157. 1906.